THE JOURNAL OF
LOGIC PROGRAMMING

VOLUME 35, NUMBERS 1, 2 and 3, 1998

CONTENTS

Regular Papers
Differential methods in logic program analysis **1**
Maria García de la Banda, Kim Marriott, Peter Stuckey and Harald Søndergaard

Negation as failure in the head **39**
Katsumi Inoue and Chiaki Sakama

Datalog with non-deterministic choice computes NDB-PTIME **79**
Fosca Giannotti and Dino Pedreschi

Regular Papers
Data-parallel concurrent constraint programming **103**
Bo-Ming Tong and Ho-Fung Leung

A logical foundation for logic programming I: Biconsequence relations and nonmonotonic completion **151**
Alexander Bochman

A logical foundation for logic programming II: Semantics of general logic programs **171**
Alexander Bochman

Regular Papers
Expanding queries to incomplete databases by interpolating general logic programs **195**
Chitta Baral, Michael Gelfond and Olga Kosheleva

Deductive query languages for recursively typed complex objects **231**
Richard Hull and Jianwen Su

Datalog with integer periodicity constraints **263**
David Toman and Jan Chomicki

Author index to volume 35 **291**

Title index to volume 35 **293**